

Owner's Manual

Important!
Return your Warranty Registration
Card within 10 days. See why inside.



PHILIPS MAGNAVOX

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty
Registration Card right away guarantees you'll receive all the information and special offers which you
qualify for as the owner of your
model.

PHILIPS MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network. And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome-and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,



Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these

safetysymbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No.	
Serial No.	

PHILIPS MAGNAVOX Visit our World Wide Web Site at http://www.philipsmagnavox.com

Introduction 3

Welcome to your TV/VCR owner's manual.

This manual has seven sections: Setting Up Your TV/VCR; Description of Controls; Basic Operations; Recording Options; Playing Options; Stereo Features; and Information You May Need. The instructions explain all of the TV/VCR's features, which are listed below.

Features

- A-B Repeat Play
- Automatic Channel Setup
- Automatic Operation Features
- Automatic Tracking Adjustment
- Closed Caption
- Daylight-Saving Time
- High Quality (HQ) System
- Index Search
- · MTS (Multi-Channel Television Sound) System
- On-Screen displays in English or Spanish
- On-Screen Menu Programming, accessible with remote control or front panel buttons
- · One-Touch Recording
- · Real-Time Counter
- Remote Control with capability to operate a Cable Box or Direct Broadcast System
- Remote Locator
- Repeat Play
- Skip Search
- Sleep Timer
- SmartClock™
- Smart Picture
- Smart Sound
- Special Effects Playback: Forward and Reverse Searching; Still; Variable Slow; Frame Advance
- Timer Recording
- VCR Plus+ Programming System

Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

FCC Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This TV/VCR, equipped with a High Quality (HQ) system, is compatible with existing Video Home System (VHS) equipment.

Philips Consumer Electronics Company recommends that you use only video cassette tapes that have been tested and inspected for use in two, four, six, and eight hour VCRs, and which are labeled with the WHS mark. The use of tapes that have not been inspected for use in two, four, six, and eight hour VCRs may result in poor picture quality and excessive deposits on the video heads, which may not be covered by the warranty if damage occurs.

Note to the Cable TV System Installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding – in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

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VCR Plus+ and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

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Before Using the TV/VCR 5

Putting Batteries in the Remote Control

1

Remove the battery compartment lid on the bottom of the remote control by pressing in the tab and lifting the lid.

2

Place three AA batteries inside the battery compartment with their + and - ends aligned as indicated.

3

Replace the battery compartment lid.

Using the Remote Control

- Press the COMBI button, then point the remote control at the TV/VCR's remote sensor when using the remote control to operate the TV/VCR. Press the CABLE/DBS button, then point the remote control at the Cable Box/DBS when using the remote control to operate the Cable Box/DBS.
- Do not put objects between the remote control and the TV/VCR.

Erasure Prevention

Video cassette tapes have record tabs to ensure that recordings are not accidentally erased.

1

To prevent accidental erasure, break off the tab with a screwdriver.

2

To record again, cover the hole with cellophane tape.

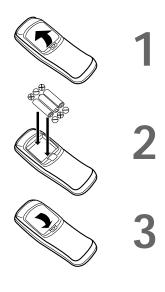
TV/VCR Maintenance

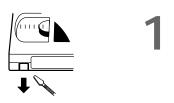
- In this TV/VCR, use only tapes with the **WHS** mark.
- Make sure any light adhesive stick-on notes are removed from the video cassette tape before putting the tape in the TV/VCR. Removable labels like these can jam the TV/VCR.
- Periodic maintenance is required to maintain your TV/VCR's excellent performance. This TV/VCR has an automatic head cleaning system. However, the video heads will eventually require cleaning or replacement. Cleaning or replacement of the video heads should be performed by an authorized service cen-

Recycling Information

Your new product and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount that needs to be properly disposed.

Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old product, batteries, and packaging whenever you replace existing equipment.







2

- The remote control and its batteries are supplied.
- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

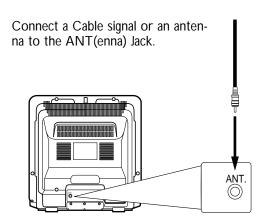
6 Hooking Up the TV/VCR

1

Hook up your TV/VCR using one of the connections shown.

A.

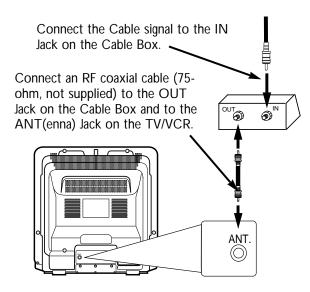
Hooking Up Your TV/VCR With a Cable Signal or Outdoor Antenna



B.

Hooking Up Your TV/VCR With a Cable Box

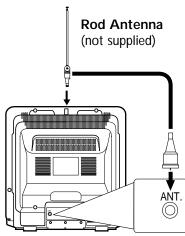
To view any channel, set the TV/VCR to the Cable Box output channel (channel 03 or 04). Then, select channels at the Cable Box.



C.

Hooking Up Your TV/VCR With an Indoor Antenna

To install a rod antenna (not supplied), push the stem of the antenna into the antenna hole on the top of the TV/VCR. Connect the antenna wire to the ANT(enna) Jack on the back of the TV/VCR as shown. Extend the antenna and adjust its length, direction, and angle for the clearest picture.

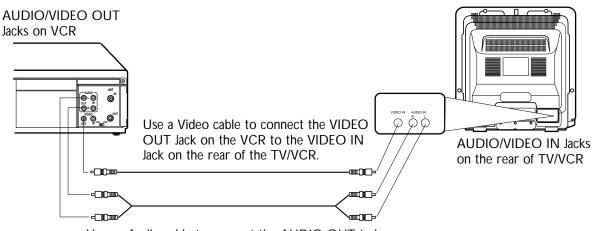


Hooking Up the TV/VCR (cont'd) 7

D.

Hooking Up Your TV/VCR to Another Video Source (VCR or Camcorder)

You may need this connection if you want to copy tapes. Details are on page 34.



Use an Audio cable to connect the AUDIO OUT Jacks on the VCR to the AUDIO IN Jacks on the rear of the TV/VCR.

2

Plug in the TV/VCR.

3

Before you turn on the TV/VCR, go to page eight.

Helpful Hints

- Before connecting the rod antenna or coaxial cable to the ANT(enna) Jack, make sure the pin is not bent. If the pin is bent, straighten it as illustrated, then connect it to the ANT(enna) Jack.
- · Audio and video cables are not supplied.
- A stereo audio cable (not supplied) is used here to deliver audio to the TV/VCR's left and right channels.

Crooked Pin Straight Pin

8 Turning On the TV/VCR

Before you turn on the TV/VCR, make sure there are batteries in the remote control and the TV/VCR is hooked up correctly. The instructions on this page work only when you turn on the TV/VCR for the first time.

1

Press the POWER button. The TV/VCR will come on and the screen shown below will appear.

SELECT LANGUAGE

1 ENGLISH ON
2 ESPAÑOL

MAKE SELECTION OR
PRESS EXIT TO CONTINUE

2

Press the Number 1 button to select English on-screen displays or press the Number 2 button to select Spanish on-screen displays.

3

Press the STATUS/EXIT button. The screen shown below will appear.

CONNECT ANTENNA OR CABLE
TO TVCR

THEN PRESS ►

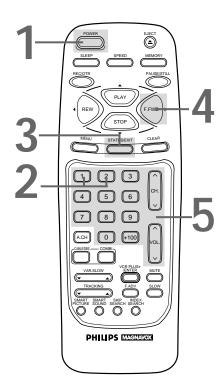
TO END PRESS EXIT

4

Press the F.FWD/▶ button to begin automatic channel setup. The TV/VCR will memorize all available channels. When channels are set, CHANNELS ARE SET will appear on-screen briefly. Then the TV/VCR will go to the lowest channel programmed.

5

Use the CH(annel). Up/Down buttons or the Number buttons on the remote control to select a TV/VCR channel. Use the VOL(ume). Up/Down buttons to adjust the



- If you do not see any on-screen displays when you turn on the TV/VCR, check your hookups, then try again.
 If you still do not see any on-screen displays, follow the steps on pages nine 10 to select a language and set up channels.
- To skip step 2, press the STATUS/EXIT button. All on-screen displays will be in English. To skip step 4, press the STATUS/EXIT button. Channels will not be set up, and CHANNELS NOT SET will appear on-screen briefly.
- You cannot set up channels if you are using a Cable Box.
- Line Input mode will always be stored in the TV/VCR's memory as channel 00. When you select channel 00, A/V IN will appear onscreen briefly. Press the CH(annel). Up/Down buttons or Number buttons to select another channel.

Follow the steps below to change the language of the on-screen displays.

1

Press the COMBI button, then press the MENU button.



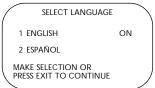
2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/► button.



3

Press the Number 1 button to choose SELECT LAN-GUAGE.

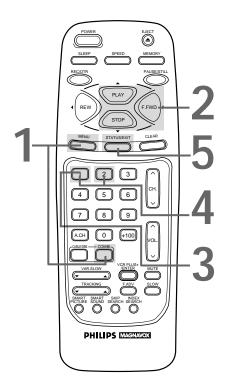


4

Press the Number 1 button if you want the on-screen displays in English. ON will appear to the right of ENGLISH on-screen. Or, press the Number 2 button if you want the on-screen displays in Spanish. SI will appear to the right of ESPAÑOL on-screen.

5

Press the STATUS/EXIT button.



- If you accidentally select Spanish and need English:
 - 1) Press the COMBI button, then press the MENU button.
 - 2) Press the PLAY/▲ button or the STOP/▼ button to select PREPARACION, then press the F.FWD/▶ button.
 - 3) Press the Number1 button to select SELECCION IDIOMA.
 - 4) Press the Number1 button to select ENGLISH.
 - 5) Press the STATUS/EXIT button.

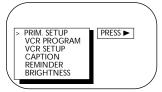
10 Automatic Channel Setup

Although the TV/VCR may automatically memorize the channels you receive when you turn it on for the first time, you may set up channels again by following the steps below.

Wait for the TV/VCR to set up channels.

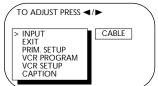
1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select INPUT. Press the REW(ind)/◀ button or the F.FWD/► button until ANTENNA or CABLE (whichever you have) appears beside INPUT.



3

Press the STOP/▼ button repeatedly to select PRIM. SETUP, then press the F.FWD/► button.

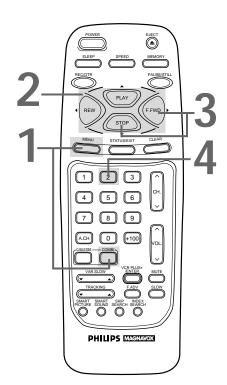


4

Press the Number 2 button to select AUTO PROGRAM-MING. AUTO PROGRAMMING MEMORIZED CH... will appear on-screen. The TV/VCR will memorize all available channels.

5

Wait for a few minutes. When setup is complete, CHANNELS ARE SET will appear on-screen. Then the programming of the lowest channel number placed in the TV/VCR's memory will appear on-screen. Now, when you press the CH(annel). Up/Down buttons, you will scan only through channels you receive.



- Line Input mode will always be stored in the TV/VCR's memory as channel 00. You cannot delete it. To exit line input mode, press the CH(annel). Up/Down buttons or the Number buttons to select another channel.
- You cannot program channels when the TV/VCR is on channel 00 (A/V INPUT will appear beside INPUT at step 2). Select ANTENNA or CABLE at step 2.

Automatic Channel Setup (cont'd) 11

Adding/Deleting Channels

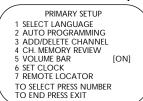
1

Press the COMBI button, then press the MENU button.



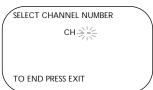
2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP, then press the F.FWD/► button.



3

Press the Number 3 button to select ADD/DELETE CHANNEL.



4

Press the Number buttons to enter the channel number you want to add or delete. You must enter a zero before single-digit channels.

```
CH 12

1 ADD
2 DELETE
3 SELECT ANOTHER CH
TO SELECT PRESS NUMBER
TO END PRESS EXIT
```

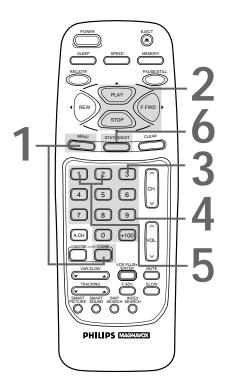
5

Within five seconds, press the Number 1 button to add that channel or the Number 2 button to delete that channel. If you do not make a choice within five seconds, you will return to the previous screen. (If you make a mistake, press the Number 3 button to select another channel.)



Press the STATUS/EXIT button.

Programming of the channel you added or deleted will appear.



- To review the channels memorized by the TV/VCR, follow these steps.
 1) Press the COMBI button, then press the MENU button.
 2) Press the PLAY/▲ button or the STOP/▼ button to select PRIM.
 SETUP. Press the F.FWD/► button.
 3) Press the Number 4 button to
 - 3) Press the Number 4 button to select CH. MEMORY REVIEW. A list of programmed channels will appear on-screen. ▶
 - 4) If all the programmed channels don't fit on-screen, press the Number 1 button. If you do not press the Number 1 button within 10 seconds, the remaining channels will appear on-screen. (If there are no remaining channels, the previous menu will appear.) Or press the Number 2 button to see the previous screen of channels.
 - 5) Press the STATUS/EXIT button once or twice.

12 Setting the Clock

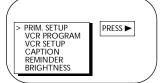
There are three ways to set the clock: Manually, with Automatic PBS Channel Selection, or with Manual PBS Channel Selection. With manual clock setting, you tell the TV/VCR the current time. With Automatic or Manual PBS Channel Selection, the TV/VCR gets the time from your local PBS station. If you use either Manual PBS Channel Selection or Automatic PBS Channel Selection, follow the steps on page 19 to have the TV/VCR maintain the clock according to your Time Zone.

To set the clock manually, follow the steps on pages 12 -13. To set the clock using Automatic PBS Channel Selection, follow the steps on pages 14 - 15. To set the clock using Manual PBS Channel Selection, follow the steps on pages 16 - 17.

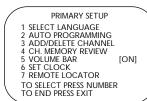
- Before you begin, make sure:
- The TV/VCR is hooked up and turned on.
- Channels are set up.
- You make each entry within 60 seconds of the previous entry. (If you do not, you may start again at step 1.)

Manual Clock Setting

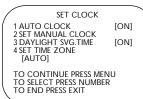
Press the COMBI button, then press the MENU button.

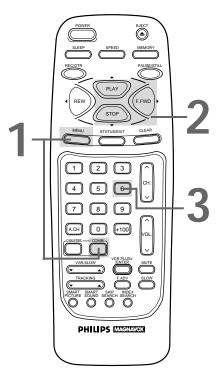


Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/▶ button.



Press the Number 6 button to select SET CLOCK.





- Entries that do not match the TV/VCR's calendar will cause a question mark to appear on screen.
- To make corrections while you are setting the clock, press the CLEAR button until the space for the number you want to correct is flashing. Then enter the correct number.

4

Press the Number 2 button to select SET MANUAL CLOCK.

SET MANUAL CLOCK

TIME ----
DATE --/-
TO END PRESS EXIT

5

Press two Number buttons for the hour(s) and two Number buttons for the minute(s). Then press 1 for AM or 2 for PM. For example, for 9:30 PM, press 09, 30, 2.

SET MANUAL CLOCK

TIME 09:30 PM

MONTH A-1-
TO CORRECT PRESS CLEAR
TO END PRESS EXIT

6

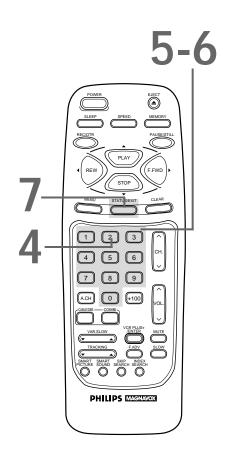
Press two Number buttons for the month, two Number buttons for the day, and two Number buttons for the year. For example, for July 1, 1998, press 07, 01, 98. The day of the week will appear automatically.

SET MANUAL CLOCK
TIME 09:30 PM
DATE 07/01/98
WEDNESDAY

TO CORRECT PRESS CLEAR
TO END PRESS EXIT

7

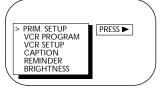
Press the STATUS/EXIT button.



Automatic PBS Channel Selection

1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/► button.



3

Press the Number 6 button to select SET CLOCK.



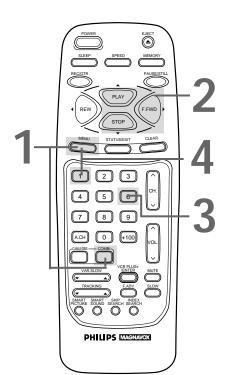
4

If ON appears beside AUTO CLOCK, press the MENU button. If OFF appears beside AUTO CLOCK, press the Number 1 button so that ON appears to the right of AUTO CLOCK, then press the MENU button.

```
AUTO CLOCK
AUTO CLOCK USES
PBS CHANNEL DATA

1 SET PBS CH. AUTO
2 SET PBS CH. MANUAL

TO SELECT PRESS NUMBER
TO END PRESS EXIT
```



5

Press the Number 1 button to select SET PBS CH. AUTO.

SET AUTO CLOCK

TIME --:-
DATE --/-
NOW SEARCHING

TO END PRESS EXIT

6

NOW SEARCHING flashes on the TV/VCR screen.

However, you may see the message "PLEASE TURN OFF TO SET AUTO CLOCK PLEASE WAIT SEVERAL MINUTES." If this message appears, turn off the TV/VCR for a few minutes. When you turn on the TV/VCR, the time will be set.

If the time is not set, repeat steps 1 - 5. Or, follow the steps on pages 12 - 13 to set the clock manually or pages 16 - 17 to set the clock with Manual PBS Channel Selection.

7

When the TV/VCR finds the PBS channel, the time will appear on-screen. Press the STATUS/EXIT button.

SET AUTO CLOCK

TIME 06 : 30 PM

DATE 07 / 01 / 98

WEDNESDAY

TO END PRESS EXIT

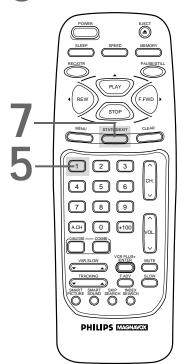
 If CANNOT FIND CLOCK DATA flashes on the TV/VCR screen, you will be prompted to turn off the TV/VCR. Turn off the TV/VCR. Leave it off for several minutes. When you turn on the TV/VCR again, the clock will be

SET AUTO CLOCK

TIME --:-
DATE --/--
CANNOT FIND CLOCK DATA

TO END PRESS EXIT

Wait for the TV/VCR to find the time.



- To display the time, press the STA-TUS/EXIT button. A status display, which includes the time, will appear on the TV/VCR screen. Details are on page 29.
- You must turn off the TV/VCR for several minutes during automatic clock setting. If the clock is not set when you turn on the TV/VCR, repeat the steps for Automatic PBS Channel Selection. If the clock still is not set, set the clock manually.
- You cannot use the AUTO CLOCK feature if you don't receive a PBS channel that carries a time signal in your area. Set the clock manually.
- Cable Box users must set the clock manually.

Manual PBS Channel Selection

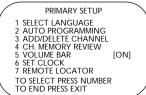
1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/► button.



3

Press the Number 6 button to select SET CLOCK.



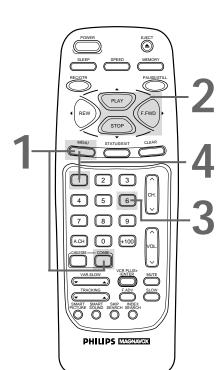
4

If ON appears beside AUTO CLOCK, press the MENU button. If OFF appears beside AUTO CLOCK, press the Number 1 button so that ON appears to the right of AUTO CLOCK, then press the MENU button.

```
AUTO CLOCK
AUTO CLOCK USES
PBS CHANNEL DATA

1 SET PBS CH. AUTO
2 SET PBS CH. MANUAL

TO SELECT PRESS NUMBER
TO END PRESS EXIT
```



5

Press the Number 2 button to select SET PBS CH. MAN-UAL.

AUTO CLOCK (PBS) CH -
TIME --:-
DATE --/--/-
SELECT CHANNEL NUMBER
TO END PRESS EXIT

6

Use the Number buttons to enter your PBS station. If you make a mistake, press the CLEAR button, then enter the correct number.

AUTO CLOCK (PBS) CH 12

TIME --:-
DATE --/-
NOW SEARCHING

TO END PRESS EXIT

7

NOW SEARCHING flashes on the TV/VCR screen.

8

When the TV/VCR finds the clock data, the time will appear on-screen. Press the STATUS/EXIT button.

AUTO CLOCK (PBS) CH 12

TIME 06:30 PM

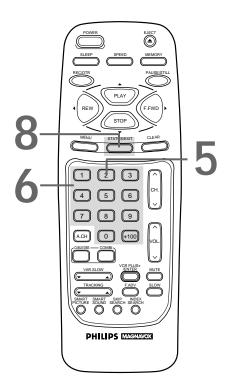
DATE 07/01/98

WEDNESDAY

TO END PRESS EXIT

- If CANNOT FIND CLOCK DATA flashes on the TV/VCR screen and you know another PBS channel, press the Number 1 button to choose SELECT NEW PBS CH. Repeat step 6.
- If CANNOT FIND CLOCK DATA flashes on the TV/VCR screen and you do not know another channel, press the Number 2 button to select SET PBS CH. AUTO. The TV/VCR will search for the PBS channel automatically.
 - If the PBS channel is found, the time will appear on-screen. Press the STATUS/EXIT button.
 - If the PBS channel is not found, you will be prompted to turn off the TV/VCR. Leave it off for several minutes. When you turn on the TV/VCR again, the time will be set.

Wait for the TV/VCR to find the time.



- If you have an Antenna hookup, you may select channels 2 - 69 at step
 If you have a cable connection, you may select channels 1 - 125 at step 6. Details about available memorized channels are on page
- To display the time, press the STA-TUS/EXIT button. A status display, which includes the time, will appear on the TV/VCR screen. Details are on page 29.

18 Daylight-Saving Time

When the Daylight-Saving Time feature is ON, the TV/VCR clock will automatically move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October. To turn Daylight-Saving Time ON or OFF, follow the steps below.

1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/► button.



3

Press the Number 6 button to select SET CLOCK.

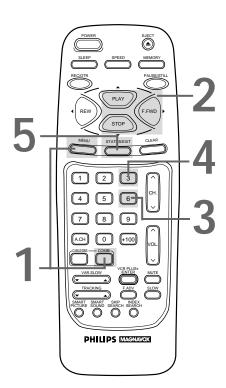


4

Press the Number 3 button so that ON or OFF appears beside DAYLIGHT SVG. TIME (Daylight-Saving Time).

5

Press the STATUS/EXIT button.



When you set the clock using AUTO CLOCK, specify a time zone so the TV/VCR will maintain the clock according to your time zone.

1

Press the COMBI button, then press the MENU button.



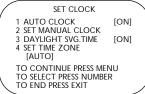
2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/► button.

- PRIMARY SETUP

 1 SELECT LANGUAGE
 2 AUTO PROGRAMMING
 3 ADD/DELETE CHANNEL
 4 CH. MEMORY REVIEW
 5 VOLUME BAR
 6 SET CLOCK
 7 REMOTE LOCATOR
 TO SELECT PRESS NUMBER
 TO END PRESS EXIT
- 3

Press the Number 6 button to select SET CLOCK.



4

Press the Number 4 button to select SET TIME ZONE.

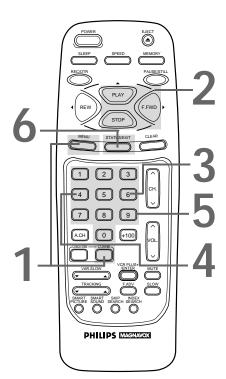


5

Press the Number button to select your time zone. ON will appear beside the selected time zone.



Press the STATUS/EXIT button twice.



- If you select AUTO at step 5, the TV/VCR will set the clock according to the time zone data of the PBS station it finds.
- You cannot select SET TIME ZONE at step 4 if AUTO CLOCK is set to OFF.

20 Setting the Remote to Operate a Cable Box/DBS

Your TV/VCR remote control **may** operate your Cable Box/DBS. If the remote control doesn't operate your Cable Box/DBS now, follow the steps below to program your remote control.

1

Turn on your Cable Box/DBS. Point the remote control at your Cable Box/DBS and **press the CABLE/DBS button. Then, press the POWER button.** If your Cable Box/DBS turns off, try the other Cable Box/DBS buttons (see pages 24 - 25 for details). If your Cable Box/DBS doesn't turn off, or if the other buttons don't work, go to step 2.

2

Find the brand of your Cable Box/DBS on the lists below and remember the two-digit number beside it.

DIRECT BROADCAST SYSTEM CODES				
MAGNAVOX94,95	RCA97	SONY98		

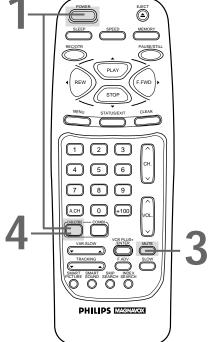
3

Press the MUTE button.

4

Within 30 seconds, press the CABLE/DBS button.

2 Find your code.



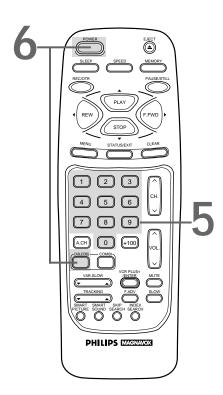
Setting the Remote to Operate a Cable Box/DBS (cont'd) 21

5

Within 30 seconds, press the Number buttons to enter the two-digit code for your Cable Box/DBS. For example, if you have a Zenith Cable Box, press Number buttons 2, 3.

6

Repeat step 1. If the remote control works your Cable Box/DBS, you're finished. If the remote control still doesn't work your Cable Box/DBS, repeat steps 2 - 5, using a different code for your brand, if available.



Helpful Hints

- Although the remote control that comes with your TV/VCR will work most Cable Boxes and DBSs, it is possible that the remote control will not operate your Cable Box or DBS.
- The remote control may only operate some features of your Cable
 Box or DBS. For example, some
 Cable Boxes may only be turned on
 at the Cable Box, therefore the
 remote control will not be able to
 turn on the Cable Box.
- If you can not change the channels at the Cable Box by using the Number buttons, press the CABLE/DBS button before you press the Number buttons. It may change channels at the Cable Box.
- If you had to program the remote control to operate your Cable Box or DBS here, whenever you replace the batteries in the remote control, you will have to program the remote control again.

There is no guarantee that the remote control will work your Cable Box or DBS.

22 Front Panel

Cassette Compartment -Insert a video cassette tape here. STOP/EJECT Button -Press once to stop the tape. When playback is stopped, press to eject the tape. Press to select an item in the pop up menu. **POWER Button -**Press to turn the power on or off. When you press the POWER button to turn on the TV/VCR, the remote locator will be activated. Details are on page 28. Remote Sensor -Receives a signal from your remote control so you can operate the TV/VCR from a distance. REC(ord) Light -Appears during a recording. It flashes when the TV/VCR power is turned off to set a timer recording or when a recording is paused. REW(ind) Button -When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stavs on-screen. Press to change a setting of a pop up menu item (for example, to adjust the BRIGHTNESS setting). PLAY Button -Press to play a tape. Also, press to release Slow, Search or Still mode and return to normal playback. Details are on page 54. CHANNEL ▲/▼ Press to select an item in the pop up menu. **Buttons** F.FWD Button -Press to scan through the TV/VCR channels. When tape playback is stopped, press to fast forward the tape at high During tape playback, speed. During playback, press to fast forward the tape while the picture press to adjust the trackstays on-screen. Press to change a setting of a pop up menu item (for ing. Details are on page example, to adjust the BRIGHTNESS setting).

REC(ord)/OTR Button -

Press once to start a recording. Details are on page 32. Press repeatedly to start a One-Touch Recording (an immediate timed recording, 30 minutes to eight hours long) of the channel you are watching. Details are on page 33.

VOLUME **▲/**▼ Buttons -

Press to adjust the sound level. Press the CHANNEL **\(\rightarrow\)** button and the VOL-UME ▼ button on the TV/VCR at the same time to display the pop up menu. Press again to remove the menu.

53.

Press the CHANNEL A button and the VOLUME ▼ button on the TV/VCR at the same

time to display the pop up menu. Press again to

Rear Panel 23

Antenna Hole Connect the stem of an indoor rod antenna here. Details are on page six. ANT. ANT(enna) Jack Connect your antenna or cable here. Details are on pages six - seven. VIDEO IN Jack -Connect this jack to the video out jack of a camcorder or a VCR. Details are on page seven.

AUDIO IN Jacks —

Connect these jacks to the audio out jacks of a camcorder or a VCR. *Details* are on page seven.

24 Remote Control Buttons

EJECT Button Press to eject the tape. SPEED Button -Press to select the recording speed (SP, LP, or SLP). POWER Button -Press to turn on or off the TV/VCR, Cable Box, or Direct Broadcast System. (You must first press the COMBI or CABLE/DBS button.) Details are on pages 20 - 21. SLEEP Button Press to set the sleep timer. Details are on page 44. PLAY/▲ Button -Press to play a tape. Details are on page 31. Press to release Slow, Search or Still mode and return to normal playback. Details are on page 54. Press to select an item in the pop up menu. MENU Button Press to display the pop up menu. You may also use the buttons on the front panel of the TV/VCR to access the pop up menu. Details are on page 22. Number Buttons Use to select channels at the TV/VCR, Cable Box, or Direct Broadcast System. Use to program TV/VCR functions (such as setting the clock). Channels 1 - 9 To select, press 0, then press the channel you want. For example, to select channel 7, press 0, 7. Channels 100 and above To select, press the +100 button, then press the last two digits of the channel you want. For example, to select channel 117, press the +100 button, 1, 7. A.CH (Alternate Channel) Button Press to return to the TV channel you were viewing immediately before switching to your current channel. **SMART PICTURE Button** Press repeatedly to select a Smart Picture mode. Details are on page 27. ₽HILIPS TRACKING ▲/▼ Buttons Press during tape playback to adjust the tracking. Details are on page 53. SMART SOUND Button -Press to turn the Smart Sound feature on or off. Details are on page 47. SKIP SEARCH Button Press during playback to fast forward past 30 seconds of the tape. Press up to six times in a row to skip up to three minutes of the F(rame). ADV(ance) Button Press when in Still mode to advance the picture one frame at a time. Details are on page 54. INDEX SEARCH Button -Press to fast forward or rewind to the starting points of programs that you have recorded on a tape. Details are on page 52. SLOW Button During tape playback, press to view the picture in slow motion.

CH(annel). Up/Down Buttons

Details are on page 54.

Press to scan through the channels of the TV/VCR or the Cable Box/DBS.

Remote Control Buttons (cont'd) 25

PAUSE/STILL Button

During recording, press to temporarily stop the recording. Press again to resume recording. *Details are on page 32.* You cannot pause a One-Touch Recording.

During tape playback, press to freeze the picture (still). Details are on page 54.

MEMORY Button-

Press to memorize a tape position at which the real-time counter was set to 0:00:00. *Details are on page 51*. Or, press to memorize the start and end position on a tape when setting up A-B Repeat Play. *Details are on pages 49 - 50*.

REC(ord)/OTR Button

Press once to start a recording. *Details are on page 32.* Or, press repeatedly to start a One-Touch Recording (an immediate timed recording, 30 minutes to eight hours long) of the channel you are watching. *Details are on page 33.*

REW(ind)/◀ Button

When tape playback is stopped, press to rewind the tape at high speed. During tape playback, press to rewind the tape while the picture stays on-screen. *Details are on page 54*.

Press to change a setting of a pop up menu item. Press to adjust the picture controls. *Details are on page 26.*

STATUS/EXIT Button -

Press to see the status display. Press again to remove the status display. *Details are on page 29*. Press to exit the on-screen menu.

CLEAR Button

Press to erase incorrect data when programming TV/VCR functions. Also, press to reset the real-time counter to 0:00:00. Details are on page 51.

CABLE/DBS Button

Press to operate the Cable Box or Direct Broadcast System.

VAR(iable). SLOW Buttons -

During slow motion tape playback, press to vary the playback speed from 1/6 to 1/30 of normal speed. *Details are on page 54*.

COMBI Button

Press to operate the TV/VCR.

VCR PLUS+/ENTER Button

Press to set a Timer Recording with the VCR Plus+ programming system. Details are on pages 39 - 42.

MUTE Button

Press to eliminate the TV/VCR's sound. Press again to return to the previous volume level.

VOL(ume). Up/Down Buttons -

Press to adjust the sound level. If you press the VOL(ume). Up/Down buttons when the sound is muted, the sound will be

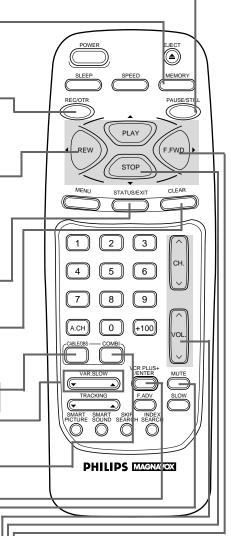
STOP/▼ Button-

Press to stop the tape or to select an item in the pop-up menu.

F.FWD/► Button-

When tape playback is stopped, press to fast forward the tape at high speed. During tape playback, press to fast forward the tape while the picture stays on-screen. *Details are on page 54*. Press to change the setting of an item in the on-screen menu or press to proceed to the next menu. Press to adjust the picture controls. *Details are on page 26*.

- Press the COMBI button before pressing other TV/VCR buttons; press the CABLE/DBS button before pressing other Cable Box/DBS buttons.
- The buttons with a shaded description may also operate features of your Cable Box/DBS.
- Buttons that are shaded in the illustration light for five seconds when you press any button on the remote control.



26 Adjusting the Picture Controls

Follow these steps to adjust the TV/VCR's brightness, picture, color, tint, and sharpness.

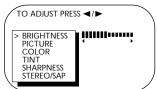
1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select the desired control (BRIGHTNESS, for example).



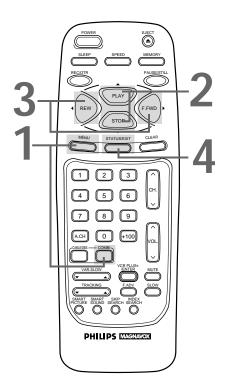
3

Press the REW(ind)/◀ button or the F.FWD/▶ button to adjust the picture control. Press the REW(ind)/◀ button to decrease a picture control. Press the F.FWD/▶ button to increase a picture control. (See chart below.)



When you finish, press the STATUS/EXIT button.

	Decrease	Increase	
BRIGHTNESS	decreased brightness	increased brightness	
PICTURE	decreased contrast	increased contrast	
COLOR	paler	more brilliant	
TINT	more purple	more green	
SHARPNESS	softer clearer		



Helpful Hints

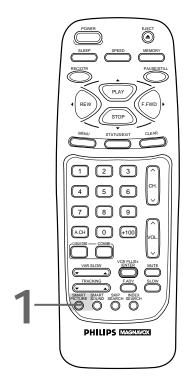
 The on-screen menus will disappear if no adjustments are made within 60 seconds. The Smart Picture feature allows you to improve the TV/VCR's picture when viewing sports, a movie, or video games; to improve the picture when the antenna/cable signal is weak; or to reset the picture controls to their original settings.

1

Press the SMART PICTURE button repeatedly until the Smart Picture mode you want appears on screen. The following options will be available.

SPORTS	Use to watch a sports program.	
MOVIE	Use to watch a movie.	
WEAK SIGNAL	Use when the picture is weak.	
VIDEO GAMES	Use when playing a video game.	
TV RESET	Use to reset the picture controls to	
	their original settings.	

Your selection will remain on screen for about 10 seconds, then disappear.



28 Remote Locator

Your TV/VCR can find your remote control for you. When you press the POWER button on the **TV/VCR** to turn on the TV/VCR, your remote control beeps and LOCATING REMOTE appears on-screen. The remote control will beep for about 30 seconds. Or, press any button on the remote control to stop the beeping.

If another remote control beeps...

The TV/VCR may find other remote controls. If this occurs, you can program the TV/VCR to find only its remote control. Follow the steps below.

1

Press the COMBI button, then press the MENU button.

2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP, then press the F.FWD/▶ button.

3

Press the Number 7 button to select REMOTE LOCATOR.

PRESS MUTE THEN PAUSE KEY

TO CHANGE CODE FROM 4

TO END PRESS EXIT

4

Press the MUTE button, then press the PAUSE/STILL button.

YOUR REMOTE LOCATOR

PRESS ANY DIGIT

TO END PRESS EXIT

5

Press one Number button (0 - 9) to enter a single-digit code for your remote control. Your remote control will beep briefly.

YOUR REMOTE LOCATOR CODE HAS BEEN CHANGED

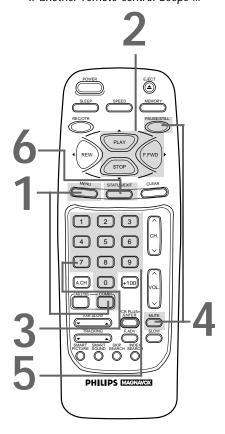
NEW CODE IS 3

TO END PRESS EXIT

6

Press the STATUS/EXIT button.

If another remote control beeps ...



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

On-Screen Status Displays 29

A status display, which includes the current time, channel, and other information (see illustration of the status display at right), will appear when you press the STATUS/EXIT button or certain function buttons. You can bring up the status display at any time by pressing the STATUS/EXIT button. Remove the status display by pressing this button again. The contents of the status display may vary.

ON MODE:

 Whenever a function button (REW(ind)/◄, PLAY/♠, etc.) is pressed, the status display will appear for five seconds.

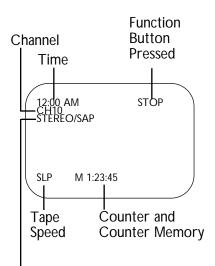
COUNTER ONLY MODE:

• When a function button (REW(ind)/◀, PLAY/▲, etc.) is pressed, the status display will appear for five seconds. After five seconds, only the counter will remain on-screen. To remove it, choose ON or OFF in the ON-SCREEN MODE menu. (There is an exception. When you press the STOP/▼ button, the status display will appear for five seconds, then disappear.)

OFF MODE:

 The status display will not appear when you press a function button. The channel number will appear briefly when you select a channel if channels are programmed.

To choose an ON-SCREEN MODE, follow the steps below.



Indicates a Stereo or Second Audio Program is available.

1

Press the COMBI button, then press the MENU button.

2

Press the PLAY/▲ button or the STOP/▼ button to select VCR SETUP. Then, press the F.FWD/▶ button.

3

Press the Number 3 button to select ON-SCREEN MODE.

4

Press the Number 1 button to select ON, the Number 2 button to select COUNTER ONLY, or the Number 3 button to select OFF. Your selection will appear on-screen.

5

Press the STATUS/EXIT button.

- If the channel you select has no broadcast, the screen will be solid blue
- You cannot view closed captions during recording or tape playback if COUNTER ONLY is selected at step 4. Details are on pages 45 - 46.

30 Reminder

The channel number will remain on-screen at all times when you set REMINDER to ON in the pop up menu. The exception is during tape playback, Forward and Reverse Searching, Still mode, and when closed captioning is selected (CAPTION in the pop up menu).

Set REMINDER to ON or OFF by following the steps below.

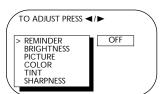
1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select REMINDER.



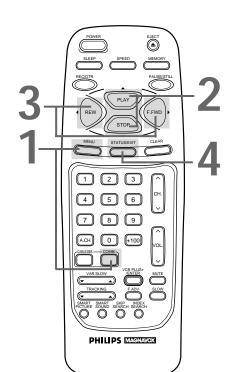
3

Press the REW(ind)/◀ button or the F.FWD/► button to select ON or OFF. Each press of the REW(ind)/◀ button or the F.FWD/► button turns REMINDER ON or OFF.



4

Press the STATUS/EXIT button.



Follow the steps below to play a tape.

1

Insert a tape in the TV/VCR. The power will come on. If the tape's record tab has been removed, playback should start automatically.

2

If playback does not start automatically, press the COMBI button, then press the PLAY/ button to start playback.

3

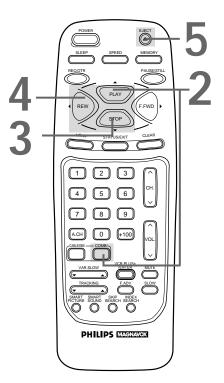
Press the STOP/▼ button to stop playback.

4

5

When the tape has finished rewinding, press the EJECT button to remove the tape.

Insert a tape in the TV/VCR.



- If the tape you want to play is already in the TV/VCR, turn on the TV/VCR power, then press the COMBI button, then press the PLAY/\(\textit{\textit{A}}\) button.
- Playback features and options are on pages 48 - 54.

32 Recording

Read and follow the steps below to record a TV program.

1

Place a tape with its record tab intact (see page five) in the TV/VCR. The power will come on. Or, if the tape is already in the TV/VCR, press the COMBI button, then press the POWER button to turn on the TV/VCR.

2

Press the SPEED button until the desired tape speed appears on the TV/VCR screen. Details about tape speed are given below.

3

Use the CH(annel). Up/Down buttons or the Number buttons to select the channel to be recorded. (Channels cannot be changed during recording.)

4

Press the REC(ord)/OTR button once to start recording. The REC(ord) light will glow.

- If there is not a tape in the TV/VCR, NO CASSETTE flashes onscreen briefly.
- If the tape does not have a record tab, PROTECTED CAS-SETTE CANNOT RECORD flashes on-screen briefly. The TV/VCR will eject the tape. Insert another tape.

5

To pause the recording (for example, during commercials), press the PAUSE/STILL button. The REC(ord) light will flash. To resume recording, press the PAUSE/STILL button again or the REC(ord)/OTR button. The REC(ord)

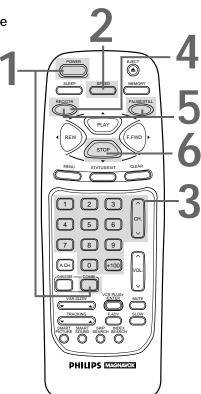
6

To stop recording, press the STOP/▼ button.

Tape Speeds

This chart shows the recording/playback time for three types of video cassettes (T160, T120, and T60). There are three playback speeds: SP, LP, and SLP. During playback, the TV/VCR selects the tape speed automatically. When recording, you can change the tape speed using the SPEED button (see page 24).

Tape Speed		Maximum Record/Playback Time			
	Туре	T160	T120	T60	
SP		2 hrs.	2 hrs.	1 hr.	
(Standard Play)		40 mins.	2 1115.	1 111.	
LP		5 hrs.	4 hrs.	2 hrs.	
(Long Play)		20 mins.	4 111 5.	2 111 5.	
SLP		8 hrs.	6 hrs.	3 hrs.	
(Super Lo	ong Play)	0 111 3.			



- You cannot record one channel while watching another.
- Recording options are on pages 33
 43.
- You cannot record if RECORD DEFEAT is set to ON. (REC DEFEATED will flash on-screen.) Details are on page 43.
- If you pause a recording for more than five minutes, the TV/VCR will switch to Stop mode automatically to protect the video cassette tape from damage.
- You can change the tape speed with the SPEED button while a recording is in progress, but some distortion may appear on the tape.

The One-Touch Recording (OTR) function allows you to program an immediate timed recording from 30 minutes to eight hours long without setting the timer.

Before you begin, make sure:

- Channels are set up.
- There is a tape in the TV/VCR. The record tab must be intact.

1

Press the COMBI button, then press the CH(annel). Up/Down buttons or the Number buttons to select the channel you want to record.

2

Press the SPEED button until the desired recording speed (SP, LP, or SLP) appears on-screen. Details are on page 32.

3

Press the REC(ord)/OTR button repeatedly until the desired recording length appears in the upper right corner of the screen. Recording will begin immediately. The REC(ord) light will

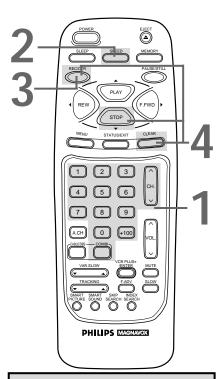
OTR LENGTH 0:30
CH12

LENGTH : PRESS OTR
CANCEL : PRESS CLEAR

4

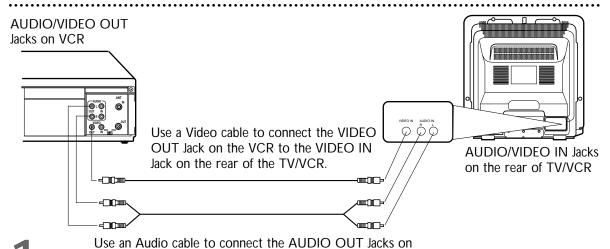
To stop an OTR before recording is finished, press the STOP/EJECT button on the TV/VCR.
Or, press the REC(ord)/OTR button, then press the CLEAR button, then press the STOP/▼ button on the remote control.

Press the STOP/EJECT button on the TV/VCR to stop the OTR.



- To check the time remaining for an OTR after the OTR has been set, press the STATUS/EXIT button.
- To change the recording length while an OTR is in progress, press the REC(ord)/OTR button until the desired recording length appears on-screen.
- You can not pause an OTR.
- To cancel an OTR but continue recording, press the REC(ord)/OTR button, then press the CLEAR button.
- You cannot record if RECORD DEFEAT is set to ON. Details are on page 43.
- You can change the tape speed with the SPEED button while a recording is in progress, but some distortion may appear on the tape.
- If the end of the tape is reached during an OTR, recording will stop. The TV/VCR will eject the tape and shut itself off. The REC(ord) light may flash.

34 Rerecording (Tape Duplication)



Make the connections shown above, using audio and video cables. (Make sure the source unit is connected to a power source.)

the VCR to the AUDIO IN Jacks on the rear of the TV/VCR.

2

The source unit (VCR or camcorder) will play your tape. **Insert a prerecorded tape in the source unit**. If playback begins, press the STOP button on the unit.

3

The TV/VCR will record your tape. **Insert a blank tape in the TV/VCR**. Make sure the tape's record tab is intact. The TV/VCR power will turn on automatically.

4

Point the TV/VCR remote control at the TV/VCR. Press the COMBI button, then press the Number buttons 0, 0 so that A/V IN appears on-screen.

5

Point the TV/VCR remote control at the TV/VCR. Press the SPEED button until the desired tape speed (SP, LP, or SLP) appears on-screen.

6

Press the PLAY button on the source unit and the REC(ord)/OTR button on your TV/VCR at the same time. Copying will begin.

7

To stop copying, press the STOP/EJECT button on the TV/VCR, then stop the tape on the source unit (VCR or camcorder).

- To exit line input mode (A/V IN), press the Number buttons or the CH(annel). Up/Down buttons to select a channel other than 00.
- Unauthorized recording of copyrighted television programs, video tapes, or other materials may infringe on the rights of copyright owners and violate copyright laws.
- Different brands of equipment may operate differently.
- Make sure all connections are secure. Otherwise, you may not record both picture and sound.
- Audio and video cables are not included.

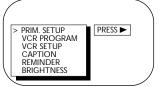
Follow the steps below to program the TV/VCR to record TV programs while you're away from home. The TV/VCR will turn itself on, record, and turn itself off automatically. Before you begin, make sure:

- The clock is set. If not, CLOCK MUST BE SET appears.
- Channels are set up.
- There is a tape in the TV/VCR. (Make sure the tape's record tab is intact and the tape is long enough to record the program.)

Complete each step within 60 seconds of completing the previous step. If you don't, you may start again at step 1.

1

Press the COMBI button, then press the MENU button.



2

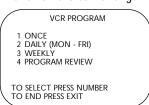
Press the PLAY/▲ button or the STOP/▼ button to select VCR PROGRAM, then press the F.FWD/▶ button.

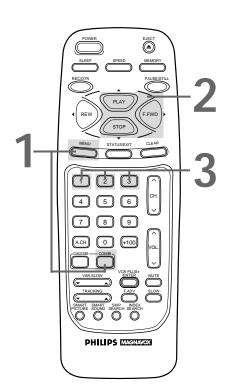


3

Select a once, daily or weekly recording.

- Press the Number 1 button to select ONCE. The TV/VCR will record a TV program on any day you choose, up to 12 months away.
- Press the Number 2 button to select DAILY. The TV/VCR will record from Monday through Friday – starting at the same time and recording the same channel for the same length of time every day.
- Press the Number 3 button to select WEEKLY. The TV/VCR will record the same channel on the same day, at the same time, and for the same length of time every week.





- If the power fails, programmed timer recordings will be restored when the clock is reset. (The clock will reset itself automatically if you are using the AUTO CLOCK feature. Details are on pages 14 17. If you are not using the AUTO CLOCK feature, reset the clock manually. Details are on pages 12 13.) The timer recording will not occur only if the timer recording was scheduled to take place during the power fail-
- You cannot set a timer recording if RECORD DEFEAT is set to ON. Details are on page 43.

36 Timer Recording (cont'd)

4

Use the Number buttons (1 - 8) to select a position in which to store the timer recording. Flashing numbers indicate an open position (one in which a timer recording has not yet been stored).

NOTE: If you select a number that has already been used to store a timer recording, PREVIOUSLY SET PROGRAM will appear on-screen for a few seconds. Then information about the program in that position will appear on-screen. If this happens, press the STATUS/EXIT button. Then use the Number buttons to select another position.

5

- If you are using an antenna or cable connection, enter the channel of the TV program you want to record (you must enter a 0 before all single-digit channels).
- If you are recording from line input, press 0, 0. A/V IN will appear on-screen.
- If you are recording using a Cable Box, enter the Cable Box output channel (03 or 04). Be sure to select the channel of the TV program at the Cable Box and leave the Cable Box on for the timer recording.

ONE TIME PROGRAM

PROGRAM 1
CHANNEL -
TO CORRECT PRESS CLEAR
TO END PRESS EXIT



Press two Number buttons for the hour(s) you want the recording to begin. Press two Number buttons for the minute(s) you want the recording to begin. Press 1 for AM or 2 for PM. For example, for 9:30 PM, press 09, 30, 2.

ONE TIME PROGRAM
PROGRAM 1

CHANNEL 10
TIME ON --:-
TO CORRECT PRESS CLEAR
TO END PRESS EXIT

Follow the instructions in step 6 to set the recording's stop time. (AM or PM will be set automatically.)

ONE TIME PROGRAM
PROGRAM 1

CHANNEL 10
TIME ON 09:30 PM
TIME OFF --:-
TO CORRECT PRESS CLEAR
TO END PRESS EXIT

Instructions continue on page 37.



- If the numbers entered do not match the TV/VCR's calendar, the entry will be rejected and a question mark will appear on screen.
- To make corrections while you are programming a timer recording, press the CLEAR button until the cursor is flashing on the item you want to change. Then enter the correct information.

8

Press the Number 1 button to record in SP speed, press the Number 2 button to record in LP speed, or press the Number 3 button to record in SLP speed. Details about tape speed are on page 32. You cannot use the (Tape) SPEED button at this time.

ONE TIME PROGRAM

PROGRAM 1

CHANNEL 10

TIME ON 09:30 PM

TIME OFF 11:00 PM

REC SPEED SLP

SP=1 LP=2 SLP=3

TO CORRECT PRESS CLEAR

TO END PRESS EXIT

9

Press two Number buttons for the month and two Number buttons for the day you want the program to record. For example, for July 10, 1998, press 07, 10. The day of the week and the year will be displayed automatically (you cannot program the TV/VCR to record more than one year in advance).

ONE TIME PROGRAM
PROGRAM 1

CHANNEL 10
TIME ON 09:30 PM
TIME OFF 11:00 PM
REC SPEED SLP
START DATE 07/10/98
FRIDAY
TO CORRECT PRESS CLEAR
TO END PRESS EXIT

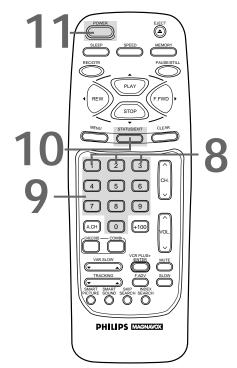
10

Press the STATUS/EXIT button. PROGRAM WAS COMPLETED PLEASE TURN OFF FOR TIMER RECORDING will appear on-screen.

- If there is not a tape in the TV/VCR, PLEASE INSERT CAS-SETTE also appears on-screen.
- If there is a tape without a record tab in the TV/VCR, PLEASE REMOVE CASSETTE also appears on-screen. If this happens, insert a different tape.
- If PROGRAM NOT COMPLETED appears, start again at step 1.

11

Turn off the TV/VCR power. If you forget to turn off the TV/VCR, PLEASE TURN OFF FOR TIMER RECORDING appears on the TV/VCR screen two minutes before a timer recording starts.



The TV/VCR must be off for a timer recording! Make sure there is a tape in the TV/VCR.

Helpful Hints

- The REC (ord) light may flash when you turn off the TV/VCR at step 11 if a tape is not in the TV/VCR.
- PROGRAM NOT COMPLETED / CLASH may appear on-screen when you finish setting a timer recording. This means that the timer recording you just programmed and another timer recording overlap, and thus the current timer recording will not be carried out.
- To stop a started timer recording, press the STOP/EJECT button on the TV/VCR.

Please see page 58 for more Helpful Hints.

38 Timer Recording (cont'd)

Checking or Clearing Timer Recordings

1

With the TV/VCR on, press the COMBI button, then press the MENU button.

2

Press the PLAY/▲ button or the STOP/▼ button to select VCR PROGRAM, then press the F.FWD/► button.

3

Press the Number 4 button to select PROGRAM REVIEW. The timer recording information for the program in the lowest numbered position will appear on-screen. If no timer recordings are programmed, nothing will happen when you press the Number 4 button.

4

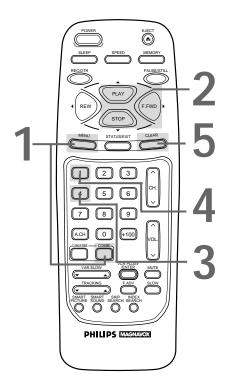
Press the Number 1 button to display information about the next programmed timer recording. (If you do not press a button within 10 seconds, information about the next programmed timer recording will appear.) This will continue until all positions have been displayed. Then, the menu will disappear. You can exit the Program Review at any time by pressing the STATUS/EXIT button.

5

To cancel the timer recording displayed, press the CLEAR button. Either the display will disappear or information about other timer recordings will appear. If you do not press any other buttons, the display will disappear after all timer recordings have been displayed.



Repeat steps 1 - 4 to make sure you have cleared the correct position.



Setting Up the VCR Plus+ Programming System 39

1

First, fill in the boxes on this page. It will only take a few minutes, and you must do it if you want the VCR Plus+ programming system to work properly.

Since the channel numbers of the stations you receive may not be the same as the station numbers, and since channel numbers differ from area to area, you must program the TV/VCR with your local channel information. To fill in the boxes, you will need 1) a cable channel line-up list, if applicable (you can request one from your cable company), and 2) a chart that lists VCR Plus+ channel numbers, which you can find in your TV guide or the TV listings of your local newspaper.

NOTE: If you are using a Cable Box/DBS, the Cable/TV channel must be 03 or 04 (the Cable Box/DBS output channel) for every VCR Plus+ channel.

TV Channels				
Station Call Letters	VCR PLUS+ CH.	CABLE/TV CH.		

TV Channels				
Station Call Letters	VCR PLUS+ CH.	CABLE/TV CH.		

40 Setting Up the VCR Plus+ Programming System (cont'd)

2

Now, compare the channel numbers you have written in the VCR PLUS+ CH. and CABLE/TV CH. columns. You'll notice that some stations have VCR Plus+ and Cable/TV channel numbers that are the same, and other stations have channel numbers that do not match. Where the channel numbers DO NOT match, you must tell the TV/VCR the VCR Plus+ and Cable/TV channel numbers according to the following steps.

• Make each entry within 60 seconds of the previous entry.

3

Press the COMBI button, then press the MENU button.

4

Press the PLAY/▲ button or the STOP/▼ button to select VCR SETUP, then press the F.FWD/► button.

5

Press the Number 5 button to select VCR PLUS+ REF.

```
VCR PLUS+ CROSS REF. MAP
VCR PLUS+ CABLE/TV

124 --
125 --
01 ----▶ --
02 --
03 --
TO SELECT CH PRESS CH ▲/▼
THEN ENTER CH NO.
TO END PRESS EXIT
```

6

Look at the lists you filled in on page 39. For stations whose VCR Plus+ and Cable/TV channels do not match, press the CH(annel). Up/Down buttons until the arrow is beside the VCR Plus+ channel you need. Then, press the Number buttons to enter the corresponding Cable/TV channel from your list. (Enter a "0" before single-digit channels.) Continue this process until you have entered all the stations on your list.

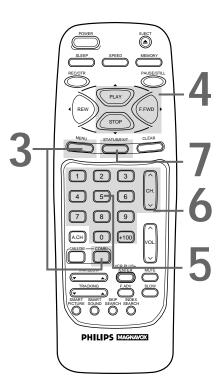
Note: If you are using a Cable Box/DBS, the Cable/TV channel will be 03 or 04 (the Cable Box/DBS output channel) for every VCR Plus+ channel. You must set the Cable Box/DBS to the channel you want to record; leave the Cable Box/DBS on for the timer recording.

```
VCR PLUS+ CROSS REF. MAP
VCR PLUS+ CABLE/TV

124 --
125 --
01 --- ▶ 23
02 --
03 --
TO SELECT CH PRESS CH ▲/▼
TO DELETE PRESS CLEAR
TO END PRESS EXIT
```

Press the STATUS/EXIT button.

2 Examine the lists on page 39.



- To correct a Cable/TV channel number, repeat the steps on this page.
- To clear a Cable/TV channel number, repeat steps 3-5 on this page.
 Then, press the CH(annel)
 Up/Down buttons to select it. Then press the CLEAR button. Press the
 STATUS/EXIT button.
- Always enter a "0" before singledigit channels.
- To select line input for the Cable/TV channel, press 0,0. A/V IN will appear on-screen.

Timer Recording With the VCR Plus+ Programming System 41

Follow the steps below to program a timer recording using the PlusCode programming numbers in your TV guide. Before you begin, make sure:

- The clock has been set. If not, CLOCK MUST BE SET appears.
- Channels are programmed.
- There is a tape in the TV/VCR (make sure the tape's record tab is intact and the tape is long enough to record the program).
- You have completed the steps on pages 39 40.

Complete each step within 60 seconds of completing the previous step. If you don't, you may return to step 1.

1

Press the COMBI button, then press the VCR PLUS+/ENTER button.



2

Press the Number buttons to enter the PlusCode programming number of the program you wish to record (this number is different for every program, and it can be three to eight digits long). Finally, press the VCR PLUS+/ENTER button.

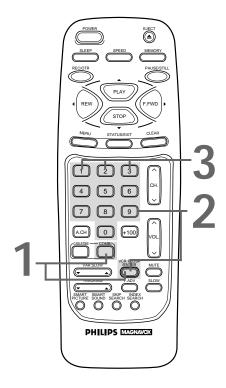
VCR PLUS+ PROGRAM

PLUS CODE: 95557 - -
TO SET PRESS VCR +
TO CORRECT PRESS CLEAR
TO END PRESS EXIT

3

To record the program once, press the Number 1 button to select ONCE. To record the same program every day from Monday through Friday, press the Number 2 button to select DAILY. To record the same program every week on the same say (such as every Saturday), press the Number 3 button to select WEEKLY.



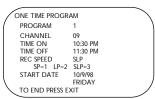


- If the timer recording will occur on a Saturday or Sunday, you cannot select DAILY at step 3. ERROR may flash on the screen after you complete step 3. Select ONCE or WEEK-LY instead.
- You cannot set a timer recording if RECORD DEFEAT is set to ON. Details are on page 43.
- If CODE ERROR flashes after you enter the PlusCode programming number and press the VCR PLUS+/ENTER button, the number you entered was incorrect (for example, too short). If this happens, enter the correct number.
- CLASH may flash on the screen after you complete step 2. This means that the timer recording you just programmed and another timer recording overlap, and thus the current timer recording will not be carried out.

42 Timer Recording With the VCR Plus+ Programming System (cont'd)

4

Press the Number 1 button to record in SP speed, the Number 2 button to record in LP speed, or the Number 3 button to record in SLP speed. Your selection will appear to the right of REC SPEED on-screen, although SP=1 LP=2 SLP=3 will continue to flash. For details about tape speed, see pages 32 and 57. You cannot use the SPEED button at this time.



5

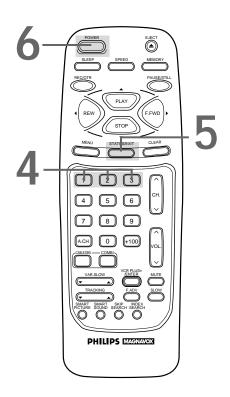
Press the STATUS/EXIT button. PROGRAM WAS COM-PLETED / PLEASE TURN OFF FOR TIMER RECORDING will appear on-screen.

- If there is not a tape in the TV/VCR, PLEASE INSERT CAS-SETTE also appears on-screen.
- If there is a tape without a record tab in the TV/VCR, PLEASE REMOVE CASSETTE also appears on-screen. If this happens, insert a different tape.



Turn off the TV/VCR power. The REC(ord) light will flash. If you forget to turn off the TV/VCR, PLEASE TURN OFF FOR TIMER RECORDING appears on the TV/VCR screen two minutes before a timer recording starts.

The TV/VCR must be off for a timer recording to take place! Make sure there is a tape in the TV/VCR.



- To exit the VCR Plus+ programming system at any time, press the STA-TUS/EXIT button. The display will disappear from the screen.
- To stop a started timer recording, press the STOP/EJECT button on the TV/VCR.
- If the power fails, programmed timer recordings will not be lost. The programmed timer recordings will be restored when the clock is reset after the power failure. (The clock will reset itself automatically if you are using the AUTO CLOCK feature. Details are on pages 14 - 17. If you are not using the AUTO CLOCK feature, reset the clock manually; then, the timer recordings will be restored. Details are on pages 12 -13.) The timer recording will not occur only if the timer recording was scheduled to take place during the power failure.

Follow the steps below to prevent accidental recording.

1

Press the COMBI button, then press the MENU button.



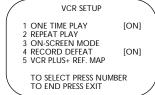
2

Press the PLAY/▲ button or the STOP/▼ button to select VCR SETUP, then press the F.FWD/► button.



3

Press the Number 4 button so that ON appears beside RECORD DEFEAT.



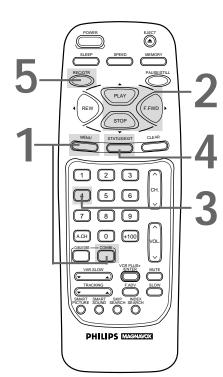
4

Press the STATUS/EXIT button.

5

Now, REC DEFEATED will flash on-screen when you press the REC(ord)/OTR button.





- If you set RECORD DEFEAT to ON after a timer recording has been set, the timer recording will not occur.
- You can not program a timer recording if RECORD DEFEAT is set to ON.
- To take the TV/VCR out of Record Defeat mode, repeat steps 1 - 2 above. At step 3, press the Number 4 button so that OFF appears beside RECORD DEFEAT on-screen. Press the STATUS/EXIT

44 Setting the Sleep Timer

Use the sleep timer to program the TV/VCR to shut off in a certain amount of time.

1

Press the COMBI button, then press the SLEEP button.

The sleep timer display will appear on-screen. (You can not set the sleep timer during a recording.)



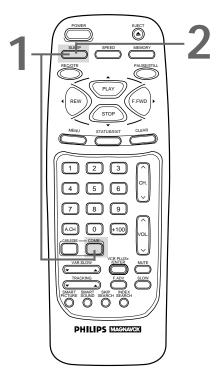
2

Within five seconds, press the SLEEP button repeatedly to select 30 minutes, 60 minutes, 90 minutes, or 120 minutes. In a few seconds, the display will disappear. Then the TV/VCR will shut itself off after the specified amount of time. One minute before the TV/VCR shuts itself off, the seconds will count down on-screen.

GOOD NIGHT appears on the TV/VCR screen 10 seconds before the TV/VCR shuts itself off.



- To see how much time remains until the TV/VCR shuts itself off, press the SLEEP button once. The time remaining will appear on-screen briefly. You cannot do this during a recording.
- To cancel a sleep timer setting, press the SLEEP button until 0 MIN appears on-screen. The on-screen display will disappear in a few seconds. You cannot cancel the sleep timer during a recording.



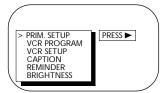
- Finish all recordings before the TV/VCR shuts itself off. If a recording is in progress, the sleep timer will be cancelled.
- A timer recording will not begin unless the TV/VCR power is off.
 Two minutes before a timer recording starts, PLEASE TURN OFF FOR TIMER RECORDING flashes onscreen. If you see this message, turn off the TV/VCR.
- If the power fails, you might lose the sleep timer setting.

When you watch a program that is being broadcast with closed captions, you can access on-screen boxes containing the program's dialogue (for example, what a character is saying), dialogue in a foreign language, or information (such as a channel guide, schedule, or announcements). Follow the steps below to select closed captions.

Not all TV programs and commercials are broadcast with closed captions. Similarly, all types of closed captions (second language, half-screen text, etc.) are not always broadcast. If closed captioning is not broadcast, you cannot receive it. This does not indicate a problem with the TV/VCR. Refer to your area's TV program listings for the shows offered with closed captions.

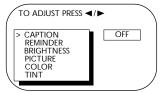
1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select CAPTION.

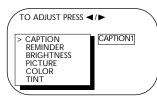


3

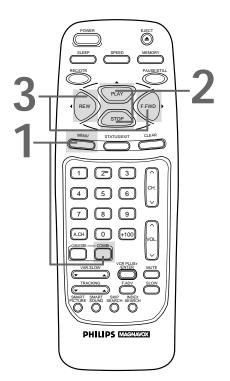
Press the REW(ind)/◀ button or the F.FWD/▶ button to select your desired mode.

The selected closed caption mode will appear beside CAPTION on-screen.

- CAPTION1 displays standard closed captions (what a character is saying).
- CAPTION2 displays foreign language closed captions (foreign language words showing what a character is saying).
- TEXT1 and TEXT2 display half-screen text (such as a channel guide, schedule, or announcement).
- OFF turns closed captions off. Captions will not appear onscreen.



Example: CAPTION1 Menu Screen



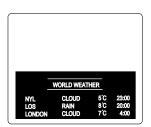
46 Closed Caption (cont'd)

4

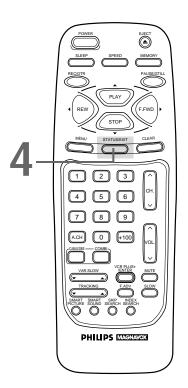
Press the STATUS/EXIT button. The type of closed captions you selected at step 3 will appear on-screen.



Standard Closed Captions



Half-screen text



- You cannot view closed captions during recording or tape playback if COUNTER ONLY is set.
- Abbreviations, symbols, and other grammatical shortcuts are often used in order to keep pace with the on-screen action. This does not indicate a problem with the TV/VCR.
- When you change channels, the closed captions may be delayed for a few seconds.
- When you adjust the volume or mute the volume, closed captions may be delayed for a few seconds.

Volume Bar / Smart Sound 47

Usually, the volume bar appears when you press the VOL(ume). Up/Down buttons. If you do not need it, set the VOLUME BAR to OFF position. For example, when you watch a program that is being broadcast with closed captions, you may choose to set the VOLUME BAR to OFF so the captions can remain on-screen. The captions will remain on-screen even when you press the VOL(ume). Up/Down buttons or the MUTE button.

1

Press the COMBI button, then press the MENU button.



2

Press the PLAY/▲ button or the STOP/▼ button to select PRIM. SETUP. Then, press the F.FWD/▶ button.



3

Press the Number 5 button so that OFF appears to the right of VOLUME BAR. Each press of the Number 5 button will turn the VOLUME BAR ON or OFF.

4

Press the STATUS/EXIT button.

Smart Sound

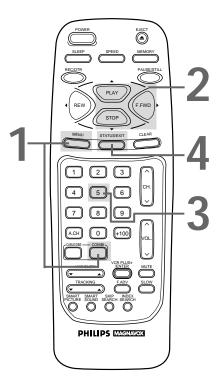
The Smart Sound feature stabilizes the TV/VCR volume. For example, when Smart Sound is turned On, the volume will not increase suddenly during commercials or loud segments of programming. The volume will stay at the same level.

1

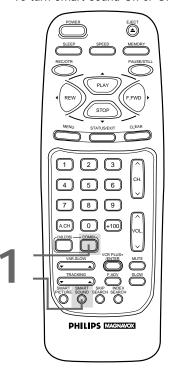
Press the COMBI button, then press the SMART SOUND button repeatedly to select ON (or OFF). The on-screen display shown below will appear for 10 seconds.



To set the VOLUME BAR to ON or OFF...



To turn Smart Sound On or Off ...



48 Repeat Play

Follow the steps below to program the TV/VCR to play a tape over and over.

1

Press the COMBI button, then press the MENU button.



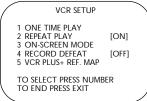
2

Press the PLAY/▲ button or the STOP/▼ button to select VCR SETUP, then press the F.FWD/► button.



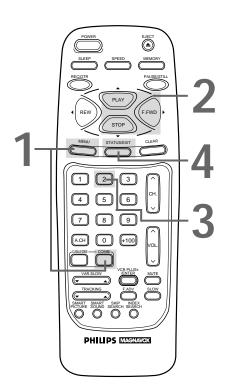
3

Press the Number 2 button so that ON appears beside REPEAT PLAY.



4

Press the STATUS/EXIT button. Now, when a tape has finished playing, the TV/VCR will rewind it and start playback again. (TV programming will appear while the tape is rewinding.)



- The TV/VCR will stay in Repeat Play mode until you set ONE TIME PLAY to ON, even if the TV/VCR is turned off. To set ONE TIME PLAY to ON, follow steps 1 - 2 above. Then, press the Number 1 button so that ON appears beside ONE TIME PLAY. Press the STATUS/EXIT button.
- The real-time counter memory will not function during Repeat Play

A - B Repeat Play 49

Follow the steps below to program the TV/VCR to play the material between two specified points (A and B) on a tape over and over again.

Insert a tape in the TV/VCR.

1

Insert a tape in the TV/VCR.

2

Press the COMBI button, then press the MENU button.



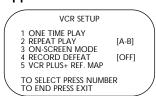
3

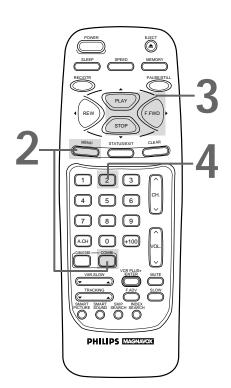
Press the PLAY/▲ button or the STOP/▼ button to select VCR SETUP, then press the F.FWD/► button.



4

Press the Number 2 button repeatedly so that A-B appears beside REPEAT PLAY.



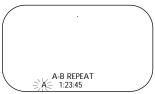


- To cancel A-B Repeat Play, set ONE TIME PLAY to ON. To set ONE TIME PLAY to ON, follow steps 2 -3 above. Then, press the Number 1 button so that ON appears beside ONE TIME PLAY. Press the STA-TUS/EXIT button.
- The end position (B) must be later on the tape than the start position (A).

50 A - B Repeat Play (cont'd)

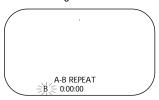
5

Press the STATUS/EXIT button to remove the display. A-B REPEAT will appear on-screen. Beneath it, the letter A will flash beside the real-time counter.



6

Play, fast forward, or rewind the tape to the position at which you want to begin playback. Stop the tape, then press the MEMORY button to set the start position (A). The flashing A will become a flashing B.



7

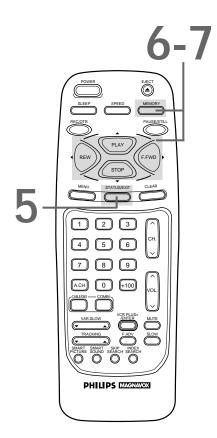
Play or fast forward the tape to the position at which you want playback to end. Stop the tape, then press the MEMORY button to set the end position (B).

 The length of time between the start position (A) and the end position (B) must be at least three minutes.

8

The TV/VCR will immediately rewind the tape to the start position (A) and repeat playback to the end position (B) over and over.

(TV programming will appear while the tape is rewinding.)



- The counter cannot be memorized or reset when you are using this feature.
- Positions A and B will be erased when a tape is ejected or when you press the REC(ord)/OTR button.
- A-B REPEAT will not appear onscreen at step 5 if a tape is not in the TV/VCR. NO CASSETTE will flash on-screen briefly.
- You cannot rewind or fast forward beyond points A or B when you are using this feature.

Real-Time Counter Memory 51

Follow the steps below to reset the real-time counter to zero at a tape location you want to refer to later.

1

Play, fast forward, or rewind a tape to the location that you would like to refer to later. Stop the tape.

2

Press the STATUS/EXIT button. The real-time counter will appear on-screen.



3

While the counter remains on-screen, press the CLEAR button to reset the real-time counter to zero.



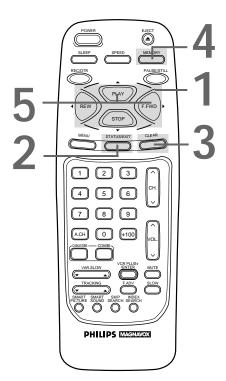
4

While the counter remains on-screen, press the MEMO-RY button so that M appears on-screen. To erase a real-time counter memory, press the MEMORY button so that the M disappears from the screen.



5

To go to a tape location where the real-time counter was reset to zero, press the REW(ind)/◀ button or the F.FWD/▶ button when playback is stopped. When the tape reaches the point at which the counter was set to zero, the tape will stop. Press the PLAY/▲ button to watch the tape.



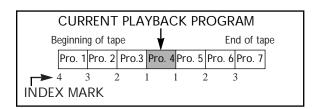
- The real-time counter memory will not function during Repeat Play mode. Details are on page 48.
- You may only set one real-time counter memory at a time. If you try to set the real-time counter to zero at a second location, the previous real-time counter to zero setting will be lost.

52 Index Search

This feature allows you to index the starting points of programs that you have recorded on a tape. Then, you can easily rewind or fast forward to that point.

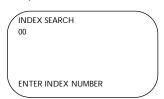
Example:

If you are watching program number 4 and you want to fast forward to program number 7, skip three programs.



1

Press the COMBI button, then press the INDEX SEARCH button to bring up the index search display. There must be a tape in the TV/VCR.

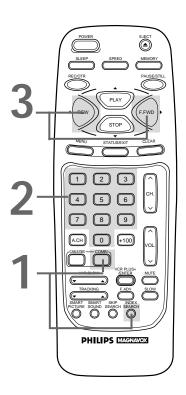


2

Within 10 seconds, use the Number buttons to enter the number of programs that you want to skip. For example, to skip three programs, press Number buttons 0, 3. If you do not make an entry within 10 seconds, the TV/VCR will exit Index Search mode.

3

Within 10 seconds, press the F.FWD/▶ button or the REW(ind)/◀ button to skip forward or backward. The TV/VCR will fast forward or rewind to the beginning of the desired program, then begin playback. (The program numbers count down on-screen as the searching progresses. To remove the on-screen counter, press the INDEX SEARCH button once.)



- Every time an index mark is skipped, the number of programs decreases by one.
- Up to 20 index marks may be searched.
- This function will not operate in recording mode.
- Press the STOP button to stop the search.
- An index mark will be made automatically when the REC(ord)/OTR button is pressed, or at the beginning of a Timer Recording or OTR.
- The index mark is not made if the PAUSE/STILL button is pressed and released during recording.
- The time gap between index marks should be greater than 1 minute for SP recording, 2 minutes for LP recording, and 3 minutes for SLP recording.

The following playback features will always operate.

Automatic Playback

When you put a tape in the TV/VCR, the power will come on automatically. If the tape's record tab is missing, playback will begin. If a timer recording is set, the power will not come on automatically when you insert a tape with the record tab intact. If a timer recording is set and the TV/VCR power is off, the TV/VCR will eject the tape if the record tab is missing.

Automatic Rewind, Eject, Off

When a tape is played, fast forwarded, or recorded to its end, the TV/VCR will rewind the tape, stop, turn itself off, and eject the tape. If a real-time counter memory is set, the TV/VCR will only rewind the tape to the point at which the counter was set to zero, then stop. The TV/VCR will not turn itself off or eject the tape.

Memory Rewind, Power Off

When the POWER button is pressed while the TV/VCR is rewinding a tape, REW → POWER OFF will appear on-screen. The TV/VCR will turn itself off when the tape has finished rewinding. If a real-time counter memory is set, the TV/VCR may only rewind the tape to the point at which the counter was set to zero, then turn itself off.

Tape Eject

A tape can be ejected with the TV/VCR power on or off (but the TV/VCR must be plugged in). If a timer recording is programmed, a tape can not be ejected when the power is off. Turn on the TV/VCR power, then eject the tape. Be sure to insert a tape and turn off the TV/VCR power for the timer recording.

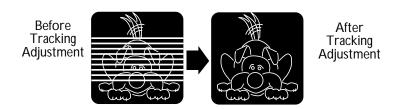
Automatic Tracking Adjustment

The TV/VCR automatically adjusts the tracking to give you the best possible picture quality. With some recordings, however, you may get a better picture using the manual tracking controls (see below).

Manual Tracking

To adjust the tracking manually, press the CHANNEL △/▼ buttons on the TV/VCR or the TRACKING △/▼ buttons on the remote control.

Tracking returns to Automatic Tracking Adjustment when a tape is inserted or when the STOP/ \blacktriangledown button is pressed.



54 Playback Options

Forward and Reverse Searching (SP/LP/SLP)

1

During tape playback, press and release the F.FWD/► button or the REW(ind)/◀ button. A fast forward or reverse picture search will begin.

2

To return to normal playback, press the PLAY/▲ button.

Super High Speed Searching (LP/SLP)

1

During tape playback, press the F.FWD/▶ button or the REW(ind)/◀ button, then press again. The TV/VCR will now search in super high speed.

2

To return to normal playback, press the PLAY/▲ button.

Viewing a Still Picture

1

During tape playback, press the PAUSE/STILL button. A still picture will appear on-screen.

2

To advance the still picture frame-by-frame, press the F(rame). ADV(ance) button.

3

To release the still picture and return to normal playback, press the PLAY/ \blacktriangle button.

Viewing a Slow Motion Picture

1

When in Play mode, press the SLOW button. The tape will play in slow motion.

NOTE: You can control the speed of slow motion playback by pressing the VAR(iable). SLOW buttons.

2

To release Slow mode and return to normal playback, press the PLAY/▲ button.



- Slow and Still modes will automatically switch to Stop mode after five minutes to protect the TV/VCR and the tape from damage.
- SP/LP/SLP means this feature will work with tapes recorded in Standard Play, Long Play, or Super Long Play. For details about tape speed, see page 32.
- LP/SLP means this feature will work with tapes recorded in Long Play and Super Long Play. For details on tape speed, see page 32.
- During forward and reverse searching, horizontal noise bars will appear on the TV/VCR screen.
- Tapes recorded in SLP will have the clearest Still picture.

MTS Broadcast Stereo System 55

Your TV/VCR can receive a program broadcast in stereo or with second audio (usually, that means a program is broadcast with a second language).

When the second audio is available, you can select either the main audio (Mono) or the second audio. But your TV/VCR can record only the sound you select. Select a sound by following the steps on page 56. NOTE: When a program is broadcast in stereo, the TV/VCR can record only in monaural (single-source) sound, regardless of your selection.

When you play back a tape, you will hear only the sound recorded on a tape, regardless of your sound selection.

Read the information on this page to familiarize yourself with your TV/VCR's stereo and second audio setups. Then, follow the directions on page 56 to receive a program broadcast in stereo or second audio.

Understanding On-Screen Displays

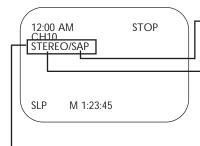
When you receive a signal from a channel you're watching, portions of the on-screen display shown below will appear when you press the STATUS/EXIT button on the remote control.



The indication STEREO or SAP that appears on this side of the status display tells you if the program you're watching is available in stereo or second audio. This indication is not available during tape playback.

When a program is not available in stereo or second audio, the indication MONO appears.

Specifically...



When a program is broadcast in second audio, SAP appears here. To watch or record in second audio, select SAP at step 3 on page 56.

When a program is broadcast in stereo, STEREO appears here. To watch in stereo, select STEREO at step 3 on page 56. NOTE: When you record a program broadcast in stereo, the TV/VCR can record only in monaural sound, regardless of your selection.

-When a program is available both in stereo and second audio, both STEREO and SAP appear here. If so, you may select STEREO, MONO, or SAP at step 3 on page 56.

56 MTS Broadcast Stereo System (cont'd)

1

Press the COMBI button, then press the MENU button.



2

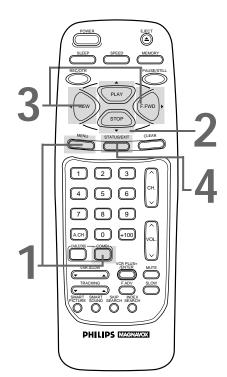
Press the PLAY/▲ button or the STOP/▼ button to select STEREO/SAP.

3

Press the REW(ind)/◀ button or the F.FWD/▶ button to select STEREO, SAP, or MONO.

4

Press the STATUS/EXIT button.



- Please see page 55 to determine if the program you want to watch/record is being broadcast in stereo or second audio.
- If you select second audio when second audio is not available, the TV/VCR will record normal audio.

Specifications / Glossary 57

Specifications

General

CRT: 25-inch in line gun Television system: NTSC-M

Closed caption system: Section 15.119, FCC (Federal Communications Commission) Standard

Video Heads: Four heads

Tape width: 1/2 inch (12.65 mm)

Tape speed

SP: 33.35 mm/sec. LP: 16.67 mm/sec. SLP: 11.12 mm/sec.

Operating Temperature: 41°F (5°C) to 104°F (40°C)

Relative Humidity: 10% to 75% Power requirement: AC 120V, 60Hz

Power consumption: 125W Sound output: 1W+1W

Dimensions:

24-1/2" (H) x 25-1/32" (W) x 20-3/32" (D)

622.5 mm x 636 mm x 510 mm

Weight: 70.4 lbs (32 kg)

Tuner Broadcast Channels

VHF 2-13, UHF 14-69

Cable TV Channels

2 - 13

Midband: A – 1 Superband: J – W Hyperband: A-5 – A-1 Special Channel: 5A

Ultraband: 37 - 94, 100 - 125

Terminals

Antenna IN: VHF/UHF 75 ohms unbalanced

Video IN: RCA connector Audio IN: RCA connector

Electrical Specifications

Video input level: 0.5~2.0Vp-p Audio input level: -10dBv

Video S/N ratio

SP: More than 42dBµ

Audio S/N ratio

SP: More than 38dB

Designs and specifications are subject to change without notice and without our legal obligation.

Glossary

<u>AUDIO IN Jacks:</u> jacks located on the back of the TV/VCR which are used to record audio from another source.

Automatic Channel Setup: process in which the TV/VCR scans all available channels and places the ones you receive in its memory. Then, when you push the CH(annel). Up/Down buttons, you only scan through channels you receive.

Bands: settings that allow you to tune channels.

- Antenna VHF (very high frequency; channels 2
 13) and UHF (ultra high frequency; channels 14
 69).
- Cable all standard channels can be received without a Cable Box.

<u>Brightness:</u> adjusting increases or decreases the brightness of the color on-screen.

<u>Color</u>: adjusting pales or brightens the TV/VCR color.

Dubbing: copying a tape using a VCR.

HQ: high quality; a feature in the TV/VCR circuitry which provides enhanced picture detail.

<u>Line Input:</u> The channel to which you set your TV/VCR during dubbing. The line input channel is always channel 00 (A/V IN). To exit line input mode, press the CH(annel). Up/Down buttons or the Number buttons to select another channel.

Mode: a TV/VCR operation.

<u>OTR</u>: One-Touch Recording; programming a timed recording that starts immediately and records for 30 minutes to eight hours, whichever you specify.

<u>Picture:</u> adjust to increase or decrease the contrast of the picture on-screen.

<u>Sharpness:</u> adjusting softens or clarifies the picture on the TV screen.

<u>Tape Speeds:</u> how fast the tape travels during playback or recording.

- SP (standard play) fastest tape speed (recording time for a T120 tape is approximately two hours); best picture quality.
- LP (long play) average tape speed (recording time for a T120 tape is approximately four hours).
- SLP (super long play) slowest tape speed (recording time for a T120 tape is approximately six hours).

<u>Tint:</u> adjusting changes the tints of the picture on the TV/VCR from purple to green.

VCR: video cassette recorder.

<u>VIDEO IN Jack:</u> jack located on the back of the TV/VCR which is used to record video from another source.

58 Helpful Hints

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.

If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

Location

For safe operation and satisfactory performance of your TV/VCR, remember the following:

- · Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation. Do not block the ventilation openings at the top and bottom of the TV/VCR. Do not place the TV/VCR on a carpet, as this will block the ventilation openings.
- · Avoid locations subject to strong vibrations.
- Do not place the TV/VCR near strong magnetic fields.
- Do not move the TV/VCR from a cold place to a hot place, or vice versa.
- · Please do not use this TV/VCR under high temperature conditions.

Electrical Shock and Fire Hazards

- Do not handle the power cord with wet hands.
- Do not pull the power cord when disconnecting the TV/VCR from the AC (alternating current) wall outlet. Grasp it by the plug.
- If water is spilled on the TV/VCR, unplug the power cord immediately and take the TV/VCR to an authorized service center.
- Do not put your fingers or objects into the TV/VCR cassette compartment.
- Do not place anything on top of the TV/VCR.

Dew Warning (Moisture Condensation)

Moisture may condense inside the unit when it is moved from a cold place to a warm place, after heating
a cold room, or when the humidity is high. There is no warning that moisture has accumulated in your
TV/VCR. If you try to play a tape in a TV/VCR in which moisture has accumulated, the tape and the
TV/VCR could be damaged. If you think moisture may have accumulated inside the TV/VCR, keep the
TV/VCR power on (but do not play a tape) for at least two hours. This will allow the TV/VCR to dry.

TV/VCR will not perform a timer recording.

- Make sure the recording start and stop times are set correctly (pages 35 38). Midnight is 12 a.m. Noon is 12 p.m.
- · Make sure the TV/VCR power is off.
- Make sure the clock is set (pages 12 17).
- Make sure there is a tape in the TV/VCR. The tape must have a record tab.
- If the power fails, programmed timer recordings will be restored when the clock is reset. (The clock will
 reset itself automatically if you are using the AUTO CLOCK feature. Details are on pages 14 17. If you
 are not using the AUTO CLOCK feature, reset the clock manually. Details are on pages 12 13.) The
 timer recording will not occur only if the timer recording was scheduled to take place during the power
 failure.
- Make sure RECORD DEFEAT is set to OFF (page 43).

TV/VCR will not record.

- Make sure the tape has a record tab (page five).
- Make sure RECORD DEFEAT is set to OFF (page 43).
- Plug the power cord into an active AC outlet (page seven).
- Check your hookups (pages six seven).
- Set up the channels (page 10).

TV/VCR has no power.

Make sure the power plug is completely connected to an AC (alternating current) outlet.

Helpful Hints (cont'd) 59

The remote control is not available, or the remote control will not access the pop up menu.

• Use the buttons on the front panel of the TV/VCR to access the pop up menu (page 22). You can not enter numbers (for example, to program a timer recording) using the front panel buttons.

TV/VCR power shuts off after 15 minutes.

• To save energy, the TV/VCR will shut itself off after 15 minutes when it is on a channel that is not receiving a broadcast signal (for example, a station that has gone off the air for the night). This is normal.

Channel reception is poor.

• Check connections, then set up the channels again (page 10).

TV/VCR does not have a picture.

- Adjust the antenna (pages six seven).
- Adjust the TV/VCR picture controls (page 26).

TV/VCR has poor sound or no sound.

- · Adjust the volume.
- Press the MUTE button to restore the volume.

Tape playback is poor or tape is destroyed.

- · Adjust the tracking. Details are on page 53.
- If moisture has accumulated in your TV/VCR, keep the power on for at least two hours, but do not try to play a tape. Details are on page 58.

TV/VCR does not display closed captions.

- · Cancel Counter Only mode. Details are on page 29.
- Make sure closed captioning is available for the program. Refer to the TV listings in your local newspaper.

Remote control does not operate TV/VCR.

- · Aim the remote control directly at the TV/VCR's remote sensor. Details are on pages five and 22.
- Remove all obstacles between the remote control and the TV/VCR.
- Inspect and replace the batteries in the remote control. Details are on page five.
- Press the COMBI button, then try the other buttons.

Number buttons won't work for channels above 69.

• Select CABLE from the INPUT section of the pop up menu, then let the TV/VCR set up the channels. Details are on page 10.

TV/VCR can't receive channels above 13.

Select CABLE from the INPUT section of the pop up menu, then let the TV/VCR set up the channels.
 Details are on page 10.

A tape can't be inserted into the TV/VCR.

- Insert the tape window side up, with the record tab facing you.
- Make sure a tape isn't already in the TV/VCR by pressing the STOP/EJECT button on the TV/VCR.
- Gently push on the center of the tape. Never force a tape into the TV/VCR.
- If a timer recording is set and the TV/VCR power is off, the TV/VCR will eject the tape if the record tab is missing.

A tape can't be removed from the TV/VCR.

- Make sure the power plug is completely connected to an AC (alternating current) outlet.
- If a timer recording is programmed, turn on the TV/VCR power, then eject the tape. Be sure to insert a tape and turn off the TV/VCR power for the timer recording.

TV/VCR ejects the tape when you try to start a recording.

• Make sure the tape has a record tab. Details are on page five.

The cylinder rotates when tape playback is stopped.

• To enable the quick play mechanism, the cylinder will rotate for about five minutes. This is normal. The quick play mechanism switches the tape mechanism from Stop to Play in just one second.

60 Limited Warranty

TV/VCR COMBINATION

90 Days Free Labor/One Year Free Parts Exchange (Two Years Free Exchange on Color Picture Tube)
This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, all parts will be repaired or replaced, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- damage caused by the use of non-VHS tapes or tapes that have not been tested and labeled for use in two, four, six, and eight hour VHS recorders.
- a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUER-TO RICO OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking) 1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL#	,
SERIAL#	

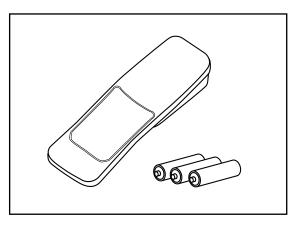
This warranty gives you specific legal rights. You may have other rights which vary from state to state.

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CCESSORIES SUPPLIED

Check to be sure the items on this page are packed with your TV/VCR. These accessories are provided to help you use or set up your TV/VCR.



Remote Control (4835 218 37227) Three AA Batteries (4835 138 17012)

If any of these items are not included, or if you need to replace an item, contact Philips Service Solutions Group at the address below.

Philips Service Solutions Group P.O. Box 967 Greeneville, TN 37744-0967

Or, call 1-800-851-8885.